MILAN KACAR

Software & Survey Engineer

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ABOUT ME

I am a Software Engineer & Survey Engineer with 5+ years of professional experience. I graduated Geodesy at Graz University of Technology in Austria, where I worked as a project and teaching assistant. Currently I am working for niceshops GmbH as a Data Scientist and Data Engineer. I am also enrolled in two Master's degree programs : Geodesy & Computer Science at the same university. I grew up in Mrkonjic Grad (Republic of Srpska, BA) where I finished my high school.

PERSONAL INFORMATION

Date of birth	01.09.1995
Birthplace	Banja Luka, BA
Citizenship	Austrian
Marital status	Single
Sex	Male

EDUCATION

GYMNASIUM

2010 - 2014 Mrkonjic Grad, BA

BSc Geomatics Engineering

University of Technology, TU Graz

2015 - 2019 Graz, Austria

Master's Degree Programme - Geodesy

University of Technology, TU Graz

2019-Present Graz, Austria

Master's Degree Programme - Computer Science

University of Technology, TU Graz

2020-Present Graz, Austria

UNIVERSITY & PERSONAL PROJECTS

- SCIENTIFIC PAPER MINER - Based on the publishing institutions we define our market competitors and geocode their locations. [Python/WebScraper]
- POLLEN TREE DETECTOR (FROM SATELLITE IMAGES) - This project presents an automated tree detecting and identification method based on image processing of satellite imagery. [Python/keras/pytorch]
- STOCK PRICES PREDICTOR - Project uses AI (Artificial intelligence) and ML (Machine learning) as a hybrid approach to detect prices fluctuation (SP 500, Dow Jones, DAX etc.) [Python/keras/pytorch]
- RUSHB APP - New method to summon a waiter and order food in bars and restaurants. As a test page you can look at `http://www.dolcevita.rushb.app/client.php`. [JavaScript/PHP/Java]
- DIFFERENT SIGNAL PROCESSING PROJECTS - Mostly projects on GNSS signals. [C++]
- GRAVITY ANOMALY MAPS - GRACE misson. [Python/MATLAB]
- KALMAN FILTER · ADVANCED KALMAN FILTER · PARTICLE FILTER - as a part of indoor navigation. [C++]
- DIFFERENT ARDUINO PROJECTS - Mostly projects from youtube tutorials and combination of different projects. [C/Java/C++]

TECHNICAL STRENGTH

Python	●●●●●
Google Cloud	●●●●●
C/C++	●●●●●
GIS	●●●●●
PostgreSQL	●●●●●
Cloud computing	●●●●●
Navigation	●●●●●
GNSS	●●●●●
Signal Processing	●●●●●
Java	●●●●○
Data Structures & Algorithms	●●●●○
MySQL	●●●●○
Docker	●●●●○
Java Script	●●●●○
PHP	●●●●○
Linux	●●●●○
R	●●●●○
Apache Spark	●●●●○
Scala	●●●○○

DISSERTATION WORK

BSc Thesis

Database for cycling routes

- Entity Relationship Diagram.
- Building the Database.
- Conversion from analog to digital maps.

MSc Thesis

PV (Photovoltaic) panels detection from satellite images

- Project uses AI (Artificial intelligence) and ML (Machine learning) as a hybrid approach to detect panels.
- Building an independent model to work on different datasets.
- Cloud computing
- YOLOv5

WORK EXPERIENCE

Survey Engineer

GEODATA

July 2019 - December 2020 | Semmering Basistunnel, Austria

Tunnel surveying | 3D Laser scanner measurements

Teaching Assistant

TU Graz

March 2021 - January 2022 | Graz, Austria

Integrated navigation | Sensor fusion | Indoor navigation

Software Engineer

TU Graz

Sep 2019 - January 2022 | Graz, Austria

Software Architect | Project Management | Automation | Data Analysis | ML Forecasting | Statistics | Automotive Battery and Electric Vehicle Testing

Data Scientist & Data Engineer

niceshops GmbH

January 2021 - pending | Vienna, Austria

Finances (all types of tasks) analysis | Cloud computing | Looker | AI & ML tasks | Courses inside the house / teaching (Looker) | Research about demand forecasting | Dynamic pricing

Project Manager & Data Engineer

Gateway Ventures GmbH

August 2023 - pending | Vienna, Austria

Startup Founding | Startup Valuation models | Pitch Deck Analyzer | Tinder for Investors/Startups | Data Lake construction | Data Mining | Data Scraping | Project Management

STRENGTHS

Hard-working | Decision Making | Ability to Work Under Pressure | Motivator & Leader | Conflict Resolution | Time Management | Target oriented | Able to travel | Flexibility and Adaptability | Problem solver

LANGUAGES

Serbian | Croatian | Bosnian
English
German
Russian

HOBBIES

Reading
I am trying to read a book per week.

Sports Addict
At a young age I enjoyed playing tennis, but my interests migrated towards Fitness and healthy food.

Travelling
After living in a rustic, small town for the past 18 years, I was craving change and adventure. Ten years later, I've traveled to more places during college than the first two decades of my life.

Trading
I love to analyze the markets and factors that may impact the price on daily/weekly and long term basis.